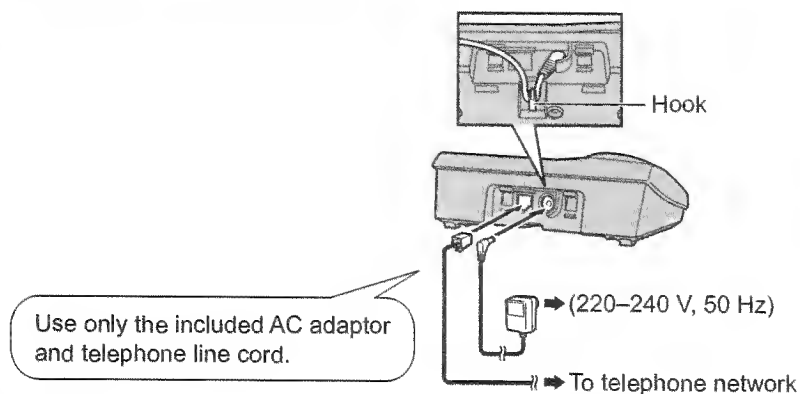# Panasonic

Digital Cordless Phone

Model No. **KX-TG7100HK**

KX-TG7102HK

Quick Guide

1 Connections

Base unit

— Hook

➡ (220–240 V, 50 Hz)

Use only the included AC adaptor and telephone line cord.

➡ To telephone network

Charger (KX-TG7102 only)

Hooks

(220–240 V, 50 Hz) ⬅

Use only the included AC adaptor.
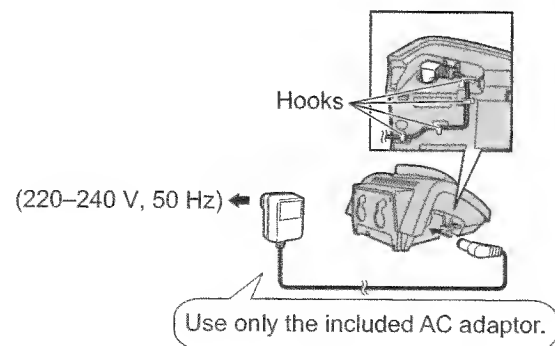
5 Frequently asked questions

Question	Cause & solution
What kind of power outlet should I connect the AC adaptor to?	Connect the AC adaptor to a 220–240 V outlet.
Why is Y flashing?	● The handset is too far from the base unit. Move closer. ● The AC adaptor is not connected. Check the connections. ● You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones. ● The handset is not registered to the base unit. Register it. [▤/OK] ⟶ "Handset Setup" ⟶ [►] ⟶ "Registration" ⟶ [►] ⟶ "Register H.set" ⟶ [►] ⟶ Press and hold [•))] on the base unit for about 3 seconds, until the registration tone sounds. ⟶ Wait until "Enter Base PIN" is displayed. ⟶ Enter the base unit PIN (default: "0000"). ⟶ [▤/OK]
Why can I not make calls?	The dialling mode setting is incorrect. Set to "Tone" or "Pulse" as needed.
Why is the handset display blank?	The handset is not turned on. To turn the power on, press [✆①] for about 1 second.
What should I do when the handset does not turn on?	● Make sure that the batteries are installed correctly. ● Fully charge the batteries. ● Clean the charge contacts and charge again.
How long should I charge new batteries?	Charge the batteries for about 7 hours.

Question	Cause & solution
How long is the battery operating time?	When you are using fully-charged Ni-MH batteries (included batteries); In continuous use: 17 hours max. In continuous standby mode: 180 hours max. ● It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use). ● To maximize battery life, it is recommended that the handset batteries be fully discharged (used) until ▭ flashes once every few months. ● Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
When should I replace the batteries?	If the batteries are fully charged until ▤ is displayed, but ▭ is displayed after a few calls, replace the batteries with new ones.
What is a PIN?	The PIN is a 4-digit number that must be entered in order to change certain base unit settings. The default PIN is "0000".
What do I need to do to display caller information?	● You need to subscribe to Caller ID service. Consult your service provider/telephone company for details. ● The message "You must first subscribe to Caller ID." will be displayed until you receive caller information after subscribing to Caller ID service.

6 Optional service (Caller ID and SMS)
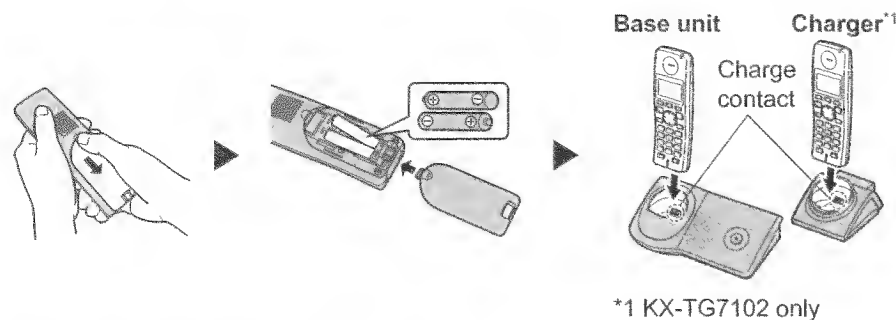
If you subscribe to Caller ID service, you can:

  – display caller information

To use SMS, you must subscribe to Caller ID and/or appropriate service.

  SMS (Short Message Service)

2 Battery installation/ Battery charge (Initial charge: 7 hours)

Base unit　　Charger*1

Charge contact

*1 KX-TG7102 only

Note:
● Use only the included rechargeable batteries.

3 Symbols used in these operating instructions

Symbol	Meaning
[▤/OK]	Press [▤/OK].
→	Proceed to the next operation.
" "	Select the words in quotations shown on the display (e.g., "Handset Setup") by pressing [▲] or [▼].

Dialling mode (tone/pulse)

1 [▤/OK]

2 Press [▲] or [▼] to select "Base Unit Setup". → [►]

3 Press [▲] or [▼] to select "Call Options". → [►]

4 Press [▲] or [▼] to select "Dial Mode". → [►]

5 Press [▲] or [▼] to select the desired setting. → [►] → [✆]

Date and time

1 [▤/OK]

2 Press [▲] or [▼] to select "Handset Setup". → [►]

3 Press [▲] or [▼] to select "Time Settings". → [►] → Press [▲] or [▼] to select "Set Date & Time". → [►]

4 Enter the current day, month, and year.

5 Enter the current hour and minute.

6 [▤/OK] → [✆]

4 Basic operations

Feature	Operation
Making a call	Dial the phone number. → [✆]/[◁]
Answering a call	[✆]
Hanging up	[✆]
Receiver/speaker volume	Press [▲] or [▼] while on a call.
Last number redial	[⊙●] → [✆]
Making a call with redial list	[⊙●] → Press [▲] or [▼] to select the desired number. → [✆]
Handset phonebook: storing an entry (name and phone numbers)	[▢] → [▤/OK] → "New Entry" → [►] → Enter the party's name (16 characters max.). → [▤/OK] → Enter the party's phone number (24 digits max.). → [▤/OK] → "Save" → [►] → [✆] ● To enter a name, see the character table in the operating instructions.
Handset phonebook: making a call	[▢] → Press [▲] or [▼] to display the desired entry. → [✆]
Handset ringer volume	[▤/OK] → "Handset Setup" → [►] → "Ringer Setup" → [►] → "Ringer Volume" → [►] → Press [▲] or [▼] to select the desired volume. → [►] → [✆]
Changing ringtone (outside calls)	[▤/OK] → "Handset Setup" → [►] → "Ringer Setup" → [►] → "Ext. Ringtone" → [►] → Select the desired ringtone. → [►] → [✆]

Sole Agent:
Shun Hing Technology Co., Ltd.
9/F., Peninsula Centre
67 Mody Road
Tsimshatsui East
Kowloon, Hong Kong
Tel: 2313 0888   Hotline: 2313 0666   Fax: 2368 8068

Panasonic Communications Zhuhai Co., Ltd.

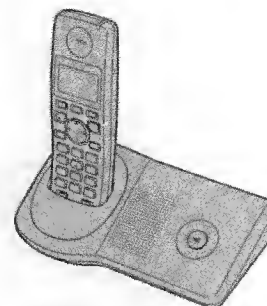3 Ping Xi 8 Lu, Nanping Keji Gongye Yuan, Zhuhai, Guangdong, China 519060

TG7100HK

PQQX15336ZA   CC0606DH0   HK-2/2
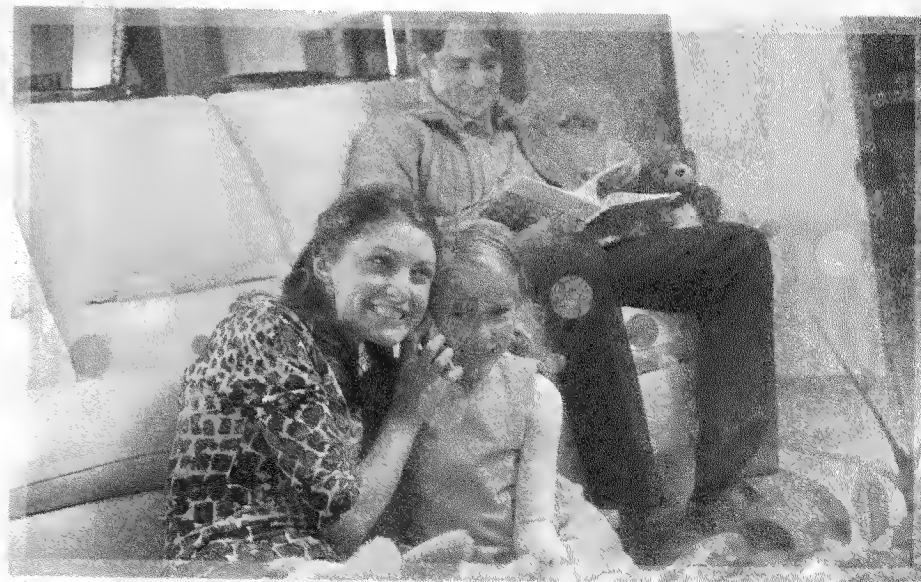
Panasonic

Operating Instructions

Digital Cordless Phone

Model No. **KX-TG7100HK**
KX-TG7102HK

KX-TG7100

SMS

This unit is compatible with Caller ID and SMS. To use these features, you must subscribe to the appropriate service of your service provider/telephone company.

Charge the batteries for about 7 hours before initial use.

Please read these operating instructions before using the unit and save them for future reference.

Introduction

Thank you for purchasing a new Panasonic digital cordless phone.

For your future reference
Keep original receipt and guarantee card to assist with any repair under warranty.

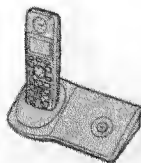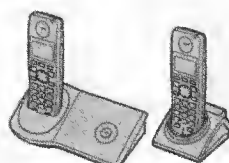| |
|---|
| Serial No. (found on the bottom of the base unit) |
| Date of purchase |
| Name and address of dealer |

Note:

● In the event of problems, you should contact your equipment supplier in the first instance.

Your phone

KX-TG7100	KX-TG7102

● References in these operating instructions to the charger and multiple handsets are for KX-TG7102 users only.

Note:

● The handsets have been pre-registered for use with their base unit. If not registered, see page 28.

Accessory information

Included accessories

No.	Accessory items	Quantity	
		KX-TG7100	KX-TG7102
①	AC adaptor for base unit (Part No. PQLV207E)	1	1
②	Telephone line cord	2	2
③	Rechargeable batteries AAA (R03) size (Part No. HHR-55AAAB or HHR-4EPT)	2	4
④	Handset cover*1	1	2
⑤	Charger (Part No. PQLV30045)	—	1
⑥	AC adaptor for charger (Part No. PQLV209E)	—	1

*1 The handset cover comes attached to the handset.
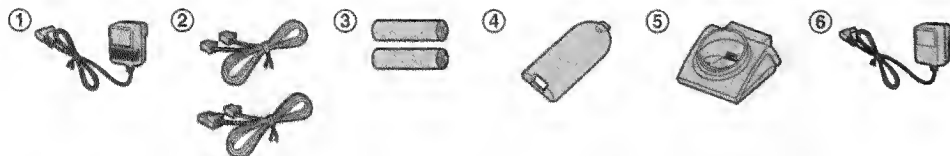
Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

No.	Model No.	Description
①	KX-TGA711HM	Additional Digital Cordless Handset
②	KX-TCA717EX	Wall-Mounting Adaptor
③	KX-TCA718EX	Belt Clip
④	KX-A272	DECT repeater

②   ③

Note:

● When replacing the batteries, use only 2 rechargeable AAA (R03) size nickel metal hydride (Ni-MH) batteries of capacity up to 750 mAh. We recommend using Panasonic rechargeable batteries (Model No. HHR-4EPT).
● We cannot be responsible for any damage to the unit or degradation of performance which may occur from using non-Panasonic rechargeable batteries.

Important information

General

● Use only the AC adaptor included with this product, noted on page 4.
● Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
● This product is unable to make calls when:
  – the portable handset battery(ies) need recharging or have failed.
  – there is a power failure.
● Do not open the base unit, charger, or handset other than to replace the battery(ies).
● This product should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
● Care should be taken that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

Environment

● Do not use this product near water.
● This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.
● The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the unit and is easily accessible.

Warning:

● To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
● Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised service centre.

Battery caution

● We recommend using the battery(ies) noted on page 4. **Use only rechargeable battery(ies).**
● Do not mix old and new batteries.
● Do not dispose of the battery(ies) in a fire, as they may explode. Check local waste management codes for special disposal instructions.
● Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
● Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
● Charge the battery(ies) in accordance with the information provided in these operating instructions.
● Only use the included base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.
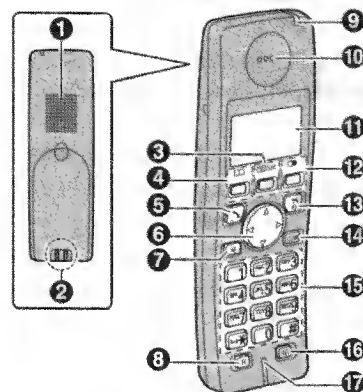
Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.
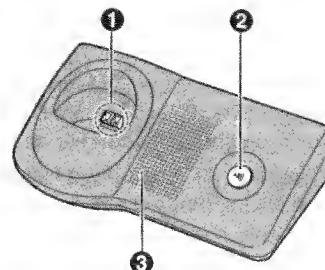
Controls

Handset

❶ Speaker
❷ Charge contact
❸ {▤/OK] (Menu/OK)
❹ {▭} (Phonebook)
❺ {➤} (Talk)
❻ Navigator key ({▲}/{▼}/{►}/{◄})
❼ {◁} (Speakerphone)
❽ {R} (Flash)
❾ Charge indicator/Ringer indicator/ Message indicator
❿ Receiver
⓫ Display
⓬ {◎●} (Redial/Pause)
⓭ {✕①} (Off/Power)
⓮ {C/⊠] (Clear/Mute)
⓯ Dial keypad
⓰ {INT] (Intercom)
⓱ Microphone

Base unit

❶ Charge contact
❷ {•)] (Page)
❸ Ringer

Displays

Display icons

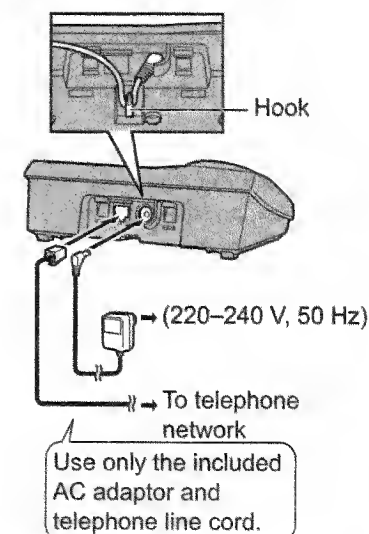| Display icon	Meaning
⑂	Within range of a base unit ● When flashing: Handset is searching for base unit. (out of range of base unit, handset is not registered to base unit, no power on base unit)
⠔	Handset is accessing base unit. (intercom, paging, changing base unit settings, etc.)
☎	Handset is on an outside call.
▯▮▮	Battery strength
[2]	Handset number (Standby display setting, page 16)
⊠	New SMS message received[*1]
⊠◌	New voice mail message received (page 22)

Display icon	Meaning
[IN USE]	Line is being used by another handset.

*1 SMS users only

Connections

Base unit
When connecting the AC adaptor to the base unit, a short beep will be heard. If it is not heard, check the connections.

Hook

→ (220–240 V, 50 Hz)

To telephone network

Use only the included AC adaptor and telephone line cord.

Charger (KX-TG7102 only)

Connect the AC adaptor to the charger and route the cable as shown. The charger can be mounted on the wall, if required.

Hooks

25 mm

(220–240 V, 50 Hz)

Screws
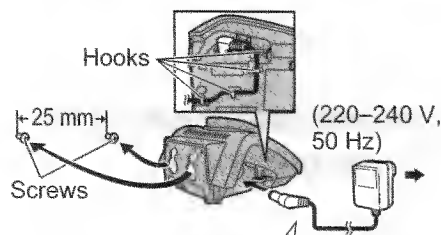
Use only the included AC adaptor.

Note:

- Never install telephone wiring during a lightning storm.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- The unit will not work during a power failure. We recommend connecting a corded telephone to the same telephone line or to the same telephone jack using a T-adaptor.

Location of base unit

- For maximum coverage and noise-free communications, place your base unit:
  - at a convenient, high, and central location with no obstructions between the handset and base unit in an indoor environment.
  - away from electronic appliances such as TVs, radios, personal computers, wireless devices or other phones.

- avoid facing radiofrequency transmitters, such as external antennas of mobile phone cell stations (Avoid putting the base unit on the bay window or near the window).
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a base unit location is not satisfactory, move the base unit to another location for better reception.

Battery installation/replacement

Important:

- Use only the included rechargeable batteries noted on page 4, 5.
- When replacing batteries, we recommend using the Panasonic rechargeable batteries noted on page 4, 5.
- Wipe the battery ends ($\oplus$, $\ominus$) with a dry cloth.
- Install the batteries without touching the battery ends ($\oplus$, $\ominus$) or the unit contacts.

1 Press the notch on the handset cover firmly and slide it in the direction of the arrow.
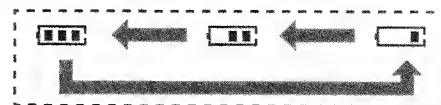   - When replacing batteries, remove the old batteries positive ($\oplus$) terminal first.
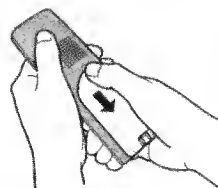
2 Insert the batteries negative ($\ominus$) terminal first. Close the handset cover.
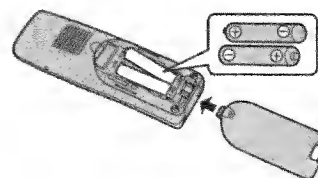
Battery charge

Place the handset on the base unit or charger for about 7 hours before initial use.
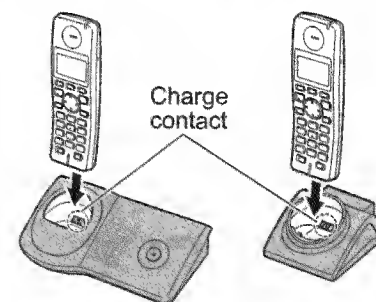
When charging, the battery icon is shown as follows.

When the batteries are fully charged, remains on the display.

- The charge indicator lights up when the handset is placed on the base unit or charger.

Base unit   **Charger*1**

Charge contact

*1 KX-TG7102 only

Note:

- It is normal for the handset to feel warm during charging.
- If you want to use the unit immediately, charge the batteries for at least 15 minutes.
- Clean the charge contacts of the handset, base unit, and charger with a soft, dry cloth once a month, otherwise the batteries may not charge properly. Clean more often if the unit is exposed to grease, dust or high humidity.

Battery strength

Battery icon

Battery icon	Battery strength
▫▪▪▪	High
▫▪▪	Medium
▫▪	Low When flashing: Needs to be charged.

Panasonic Ni-MH battery performance (included batteries)

Operation	Operating time
In continuous use	17 hours max.
In continuous standby mode	180 hours max.

Note:

● It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).

● To maximize battery life, it is recommended that the handset batteries be fully discharged (used) until ▫▪ flashes once every few months.

● Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).

● Battery operating time may be shortened over time depending on usage conditions and ambient temperature.

● The battery strength may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit or charger and charge for at least 7 hours.

Turning the power on/off

Power on

Press [✆①] for about 1 second.

Power off

Press [✆①] for about 2 seconds.

Symbols used in these operating instructions

Symbol	Meaning
[▤/OK]	Press [▤/OK].
→	Proceed to the next operation.
" "	Select the words in quotations shown on the display (e.g., "Handset Setup") by pressing [▲] or [▼].

Display language

1 [▤/OK]

2 Press [▲] or [▼] to select "Handset Setup". → [►]

3 Press [▲] or [▼] to select "Display Setup". → [►]

4 Press [▲] or [▼] to select "Select Language". → [►]

5 Press [▲] or [▼] to select the desired language. → [►] → [✆①]

Note:

● If you select a language you cannot read, press [✆①], press [▤/OK], press [▲] 3 times, press [►], press [▼] 2 times, press [►], press [▼], press [►], select the desired language, press [►], then press [✆①].

Dialling mode (tone/pulse)

Changing the dialling mode depending on your telephone line service.
"Tone": Select when you have a touch tone service.
"Pulse": Select when you have rotary or pulse service.

1 [▤/OK]

2 Press [▲] or [▼] to select "Base Unit Setup". → [►]

3 Press [▲] or [▼] to select "Call Options". → [►]

4 Press [▲] or [▼] to select "Dial Mode". → [►]

5 Press [▲] or [▼] to select the desired setting. → [►] → [✆①]

Date and time

1 [▤/OK]

2 Press [▲] or [▼] to select "Handset Setup". → [►]

3 Press [▲] or [▼] to select "Time Settings". → [►] → Press [▲] or [▼] to select "Set Date & Time". → [►]

4 Enter the current day, month, and year.
Example: 17 May, 2006
[1][7] [0][5] [0][6]

5 Enter the current hour and minute.
Example: 3:30 PM
[0][3] [3][0] → Press [✳] until "03:30 PM" is displayed.

6 [▤/OK] → [✆①]

Note:

● To correct a digit, press [◄] or [►] to move the cursor, then make the correction.

● The date and time may be incorrect after a power failure. In this case, set the date and time again.

Making calls

1 Lift the handset and dial the phone number.
   ● To correct a digit, press [C/☒], then enter the correct number.

2 [✆]

3 When finished talking, press [✆①] or place the handset on the base unit or charger.

Speakerphone

1 During a conversation, press [📢] to turn on the speakerphone.
   ● Speak alternately with the caller.

2 When finished talking, press [✆①].

Note:
● For best performance, use the speakerphone in a quiet environment.
● To switch back to the receiver, press [✆].

To adjust the receiver or speaker volume
Press [▲] or [▼] while on a call.

Redial feature

Previously dialled phone numbers (each 24 digits max.) can be redialled.

To make a call using the redial list

The last 10 phone numbers dialled are stored in the redial list.

1 [⊙●]

2 Press [▲] or [▼] to select the desired number.

3 [✆] / [📢]

To erase numbers in the redial list

1 [⊙●]

2 Press [▲] or [▼] to select the desired number. → [►]

3 "Erase" → [►]

4 "Yes" → [►] → [✆①]

Other features

Mute

While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you.
To mute your voice, press [C/☒].
● To return to the conversation, press [C/☒] again.

R button (to use the flash feature)

[R] is used to access optional telephone services. Contact your service provider/telephone company for details.

Note:
● If your unit is connected to a PBX (private branch exchange), pressing [R] can allow you to access certain features of your host PBX such as transferring an extension call. Consult your PBX dealer for details.
● You can change the flash time (page 19).

Pause button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.
Example: If you have to dial [0] before dialling outside numbers manually, you will probably need to pause after dialling [0] until you hear a dial tone.

1 [0] → [⊙●]

2 Dial the phone number. → [✆] / [📢]

Note:
● A 3 second pause is inserted each time [⊙●] is pressed. Press repeatedly to insert longer pauses.

Temporary tone dialling (for rotary or pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch tone services (e.g., telephone banking services).

1 Make a call.

2 Press [✳] when prompted to enter your code or PIN, then press the appropriate dial keys.

Note:
● The dialling mode will return to pulse when you hang up.

Answering calls

1 Lift the handset and press [✆] or [📢] when the unit rings.
   ● You can also answer a call by pressing any dial key from [0] to [9], [✳], [#], or [INT]. (Any key answer feature)

2 When finished talking, press [✆①] or place the handset on the base unit or charger.

Auto talk feature

You can answer calls simply by lifting the handset off the base unit or charger. You do not need to press [✆]. To turn this feature on, see page 16.

To adjust the handset ringer volume when receiving a call
Press [▲] or [▼].

Handset locator

Using this feature, you can locate the handset if it has been misplaced.

1 Press [•))] on the base unit.

2 To stop paging, press [•))] on the base unit or press [✆①] on the handset.

Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 50 names and phone numbers to the handset phonebook.

Adding entries to the handset phonebook

1 [口] → [▤/OK]
2 "New Entry" → [►]
3 Enter the party's name (16 characters max.; page 31). → [▤/OK]
4 Enter the party's phone number (24 digits max.). → [▤/OK]
5 "Save" → [►] → [✆]

Note:
● Step 1 variation:
[▤/OK] → Press [▲] or [▼] to select "Ph.Book Setup". → [►]

Finding and calling a handset phonebook entry

Handset phonebook entries can be searched for by first character or by scrolling through all handset phonebook entries. When you have found the desired entry, press [✆].

Scrolling through all entries

1 [口]
2 Press [▲] or [▼] to display the desired entry.

Searching by first character (index search)

1 [口]
2 Press the dial key ([0] to [9]) which contains the character you are searching for (page 31).

● Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
● If there is no entry corresponding to the letter you selected, the next entry will be displayed.
● To change the character entry mode:
[◉] → Select the character entry mode. → [►]

3 Press [▲] or [▼] to scroll through the phonebook if necessary.

Editing entries in the handset phonebook

Changing a name, phone number

1 Find the desired entry (page 14). → [▤/OK]
2 "Edit" → [►]
3 Edit the name if necessary (16 characters max.; page 31). → [▤/OK]
4 Edit the phone number if necessary (24 digits max.). → [▤/OK]
5 "Save" → [►] → [✆]

Erasing entries from the handset phonebook

Erasing an entry

1 Find the desired entry (page 14). → [▤/OK]
2 "Erase" → [►]
3 "Yes" → [►] → [✆]

Erasing all entries

1 [口] → [▤/OK]
2 "Erase All" → [►]
3 "Yes" → [►]
4 "Yes" → [►] → [✆]

Chain dial

This feature allows you to dial phone numbers in the handset phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.

1 While on a call, press [口].
2 Press [▲] or [▼] to select the desired entry.
● To search by first character (index search), see page 14.
3 Press [►] to dial the number.

Handset settings

● When customising the handset, the current item or setting is indicated by ▶ .

To customise the handset:

1   [≣/OK]

2   Press [▲] or [▼] to select "Handset Setup". ⟶ [►]

3   Press [▲] or [▼] to select the desired item in the handset settings menu. ⟶ [►]

4   Press [▲] or [▼] to select the desired item in the sub-menu. ⟶ [►]

5   Press [▲] or [▼] to select the desired setting then press [►] or follow the instruction in the "Feature" column of the chart.
    ● To exit the operation, press [✲☉].

Handset settings menu	Sub-menu	Feature (default setting)
Time Settings	Set Date & Time	Date and time: page 11
	Alarm	Set the alarm: page 18
Ringer Setup	Ringer Volume	Handset ringer volume (*Maximum*)[*1]
	Ext. Ringtone	Ringtones for outside calls ("Ringtone 1")[*2]
	Int. Ringtone	Ringtones for intercom calls ("Ringtone 3")[*3]
Display Setup	Standby Display	Standby mode display ("Off")[*4]
	Select Language	Display language ("English"): page 10
	Contrast	Display contrast (*Level 3*)
Registration	Register H.set	page 28
Other Options	New Msg. Alert	New message alert ("Off")[*5]
	Keytones	Keytones on/off ("On")
	Auto Talk	Auto talk on/off ("Off")[*6]

*1 When the ringer is turned off, the handset will ring:
  – at the minimum level for alarm
  – at the minimum level for intercom calls
  – at the maximum level for paging

*2 If you select one of the melody ringtones, the ringtone will continue to sound for several seconds if the caller hangs up before you answer. You may hear a dial tone or no one on the line when you answer a call.
  The preset melodies in this product are used with permission of © 2006 Copyrights Vision Inc.

*3 The preset melodies in this product are used with permission of © 2006 Copyrights Vision Inc.

*4 If "Off" is selected, only current date and time are displayed.
  If "Handset Number" is selected and the current handset number is 2, "[2]" is displayed.

*5 This feature alerts you when new SMS messages have been received (page 23).
  The message indicator on the handset flashes until you have read all new messages. While message alert is on, battery operating time is shortened (page 10).

*6 Auto talk feature allows you to answer calls simply by lifting the handset off the base unit or charger. You do not need to press [✆].

Time settings

Alarm

An alarm will sound for 3 minutes at the set time once or daily. Set the date and time beforehand (page 11).

1 [⊞/OK] → "Handset Setup" → [►]
2 "Time Settings" → [►]
3 "Alarm" → Press [►] 2 times.
4 Select an alarm mode. → [►]

Off	Turns alarm off. Press [►] again, then press [✕⊙] to finish.
Once	The alarm sounds once at the set time. Enter the desired day and month.
Daily	An alarm sounds daily at the set time.

5 Enter the desired hour and minute. → [⊞/OK]
6 Select the desired ringtone. → [►]
7 "Save" → [►] → [✕⊙]

Note:
● To stop the alarm, press any dial key.
● When in talk or intercom mode, the alarm will not sound until the call has ended.
● If you select "Once", the setting will change to "Off" after the alarm sounds.

Base unit settings

● Use the handset to customise the base unit.
● When customising the base unit, the current item or setting is indicated by ▶.

To customise the base unit:

1 [⊞/OK]
2 Press [▲] or [▼] to select "Base Unit Setup". → [►]
3 Press [▲] or [▼] to select the desired item in the base unit settings menu. → [►]
4 Press [▲] or [▼] to select the desired item in the sub-menu. → [►]
5 Press [▲] or [▼] to select the desired setting then press [►] or follow the instruction in the "Feature" column of the chart.
  ● To exit the operation, press [✕⊙].

Base unit settings menu	Sub-menu	Feature (default setting)
Ringer Volume	—	Base unit ringer volume (*Medium*)
Call Options	Dial Mode	("Tone"): page 11
	Recall/Flash	Change the flash time ("400 msec.").[*1]
	Call Restrict	page 20
Other Options	Base Unit PIN	Change base unit PIN ("0000").[*2] – Enter the current 4-digit base unit PIN. → Enter the new 4-digit base unit PIN. → [⊞/OK]
	Repeater Mode	("Off"): page 29

*1 Change the flash time, if necessary, depending on the requirements of your service provider/telephone company or PBX.
*2 If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

Call options

Setting call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets will be restricted. Storing area codes here will prevent the restricted handsets from dialling any phone number in that area code.

1 [▤/OK] → "Base Unit Setup" → [►]

2 "Call Options" → [►]

3 "Call Restrict" → [►]

4 Enter the base unit PIN (default: "0000").

5 Set which handsets will be restricted by pressing the desired handset number.
- All the registered handset numbers will be displayed.
- Flashing numbers indicate call restriction is turned on for the corresponding handset.
- To turn call restriction off for a handset, press the number again. The number will stop flashing.

6 [▤/OK]

7 Select a memory location. → [►]

8 Enter the phone number or area code to be restricted (8 digits max.). → [▤/OK] → [✆①]
- To erase a restricted number, press [C/☒].

Using Caller ID service

Important:
- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider/telephone company for details.

Caller ID features

When an outside call is received, the caller's phone number will be displayed.
- Phone numbers of the last 50 callers will be logged in the caller list.
- When caller information is received and it matches a phone number stored in the unit's phonebook, the stored name will be displayed and logged in the caller list.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialled from an area which does not provide Caller ID service, "Out of Area" will be displayed.
- When the caller requested not to send caller information, either no information or "Private Caller" will be displayed.

Missed calls

If a call is not answered, the unit treats the call as a missed call. The number of missed calls is shown on the display. This lets you know if you should view the caller list to see who called while you were out.

Call Waiting Caller ID

This is a service of your service provider/telephone company and will only operate if you have subscribed to this service. When you hear a call waiting tone during a conversation, the display will show the second caller's information. You can answer the second call, keeping the first call on hold. Consult your service

provider/telephone company for details of this service.

Caller list

Viewing the caller list and calling back

1 [▤/OK] → "Caller List" → [►]

2 Press [▼] to search from the most recent call, or press [▲] to search from the oldest call.
- If the item has already been viewed or answered, "√" is displayed, even if it was viewed or answered using another handset.

3 [✆] / [📢]

Editing a caller's phone number before calling back

1 [▤/OK] → "Caller List" → [►]

2 Press [▲] or [▼] to display the desired entry.

3 [▤/OK] → "Edit and Call" → [►]

4 Edit the number.
- Press dial key ([0] to [9]) to add, [C/☒] to delete.

5 [✆] / [📢]

Erasing caller information

1 [▤/OK] → "Caller List" → [►]

2 Press [▲] or [▼] to display the desired entry. → [▤/OK]

3 "Erase" → [►]
- To erase all entries, select "Erase All". → [►]

4 "Yes" → [►] → [✆①]

Storing caller information into the handset phonebook

1 [☰/OK] → "Caller List" → [►]
2 Press [▲] or [▼] to display the desired entry. → [☰/OK]
3 "Add Phonebook" → [►]
4 Continue from step 3, "Adding entries to the handset phonebook", page 14.

Voice mail service

Voice mail is an automatic answering service offered by your service provider/telephone company. If you subscribe to this service, your service provider/telephone company's voice mail system will answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your service provider/telephone company, not your telephone. When you have new messages, ⊠⊘ will be displayed on the handset. Please consult your service provider/telephone company for details of this service.

Note:
● If ⊠⊘ still remains on the display even after you have listened to new messages, turn it off by pressing and holding [C/⊠] for 2 seconds.

Using SMS (Short Message Service)

SMS allows you to send and receive text messages between other fixed-line and mobile phones that support compatible SMS networks and features.
Messages can also be forwarded by your SMS provider to fax machines and e-mail addresses.

Important:
● To use SMS features, you must:
  – subscribe to the Caller ID and/or appropriate service
  – confirm SMS is turned on
  – confirm the correct message centre numbers are stored
  Consult your service provider/telephone company for details and availability.
● This unit cannot send or receive Chinese characters.
  – Messages that contain only Chinese characters cannot be sent or received.
  – If a message contains Chinese characters and non-Chinese characters, "**This message contains unrecognized characters.**" will be displayed and the Chinese characters will be displayed as "_". (Non-Chinese characters will be displayed normally.)
● This unit cannot send or receive images or ringtones.

Using public mailbox and public keys
SMS messages can be sent and received using the public mailbox or any one of the 6 public keys.
The 6 public keys are password protected to ensure privacy.
Important:
● To send or receive a message using a public key, you must first create the public

key by storing its name and password (page 27).

Note:
● A total of 47 messages (at 160 characters/message) in all mailboxes added together can be saved. Total number may be more than 47 if length of messages is less than 160 characters/message.
● If the unit is connected to a PBX system, you may not be able to use SMS features.

Turning SMS on/off

1 [☰/OK] → "SMS" → [►]
2 "Settings" → [►]
3 "SMS On/Off" → [►]
4 "On" or "Off" → [►] → [✆⊙]

Changing SMS message centre numbers

SMS message centre telephone numbers must be stored in order to send and receive SMS messages.
The message centre numbers are preprogrammed in this unit. You can change them if necessary.
● Consult your service provider/telephone company for more information.

1 [☰/OK] → "SMS" → [►]
2 "Settings" → [►]
3 "Message Centre1" or "Message Centre2" → [►]
4 Edit the number as necessary. → [☰/OK]
5 "Save" → [►] → [✆⊙]

Note:
- If your phone is connected to a PBX, you need to add the PBX line access number and a dialling pause to the beginning of the Message Centre 1 phone number. For Message Centre 2, store the Message Centre 1 phone number as is, without adding a line access number or dialling pause.

Sending a message

Writing and sending a new message to a phone

1 [🗐/OK] → "SMS" → [►]
2 "Create" → [►]
3 Enter the message (page 31). → [🗐/OK]
4 Enter the destination phone number (20 digits max.). → [🗐/OK]
   - Using the handset phonebook:
     [🕮] → Select the handset phonebook entry. → [🗐/OK] 2 times
   - Using the caller list:
     Press [▲] or [▼] to select the party. → [🗐/OK] 2 times
   - Using the redial list:
     Press [OO] repeatedly to select the phone number. → [🗐/OK] 2 times
5 To save the message, select "Yes". → [►]
6 To send the message, press [►].
   - To cancel sending, press [✂⊙].

Note:
- This unit supports SMS messages of up to 640 characters, however, the maximum number of characters you can send or receive may be limited by your SMS service provider/telephone company.

Consult your SMS service provider/telephone company for details.
- If your message contains over 160 characters, the message is a long message and "**Long Message**" is displayed. Your service provider/telephone company may treat long messages differently from other messages. Consult your service provider/telephone company for details.
- If your phone is connected to a PBX, store the PBX line access number (page 27).

Sending a message to a specific person

For privacy, you can send a message to a specific person if you know the person's public key (mailbox name).

1 Write a message (page 24), but do not send it.
2 Before selecting "Send", select "Public Key". → [►]
3 Enter the public key (5 characters max.). → [🗐/OK]
4 "Send" → [►]

Requesting a receipt when sending a message

When sending a message, you can request a receipt to be sent to you when your message has been sent by your SMS provider.

1 Write a message (page 24), but do not send it.
2 Before selecting "Send", select "Receipt". → [►]
3 "Yes" or "No" → [►]
4 "Send" → [►]

Writing and sending a new message to a fax

1 [🗐/OK] → "SMS" → [►]
2 "Create" → [►]

3 Enter the message. → [🗐/OK] 2 times
4 "Fax Number" → [►]
5 Enter the fax number (20 digits max.). → [🗐/OK]
6 Enter a header to be printed at the top of the fax (50 characters max.). → [🗐/OK]
7 To save the message, select "Yes". → [►]
8 "Send" → [►]

Writing and sending a new message to an e-mail address

1 [🗐/OK] → "SMS" → [►]
2 "Create" → [►]
3 Enter the message. → [🗐/OK] 2 times
4 "E-Mail Address" → [►]
5 Enter the e-mail address (70 characters max.). → [🗐/OK]
6 To save the message, select "Yes". → [►]
7 "Send" → [►]

Sending a saved message

1 [🗐/OK] → "SMS" → [►]
2 "Send List" → [►]
3 To read a saved message, press [▲] or [▼] to select the message. → [🗐/OK]
4 To send the message, press [🗐/OK]. → "Send" → [►]
5 Press and hold [C/⊠] to erase all numbers, then continue from step 4, "Writing and sending a new message to a phone", page 24.

Editing and sending a saved message

1 [🗐/OK] → "SMS" → [►]
2 "Send List" → [►]
3 Press [▲] or [▼] to select the message. → [🗐/OK]
4 [🗐/OK] → "Edit Message" → [►] → Continue from step 3, "Writing and sending a new message to a phone", page 24.

Erasing saved messages

1 [🗐/OK] → "SMS" → [►]
2 "Send List" → [►]
3 Press [▲] or [▼] to select the message. → [🗐/OK]
4 [🗐/OK] → "Erase" → [►]
   - To erase all messages, select "Erase All". → [►]
5 "Yes" → [►] → [✂⊙]

Note:
- If "Inform SMSC?" is displayed, select "Yes" then press [►] to have the unit inform the SMS message centre that memory is now available to receive new messages.

Receiving a message

When an SMS message is received:
- a tone is heard (if the handset ringer is turned on)
- "Receiving SMS Message" is displayed
- ⊠ is displayed
- the message indicator on the handset flashes if the message alert feature (page 16) has been turned on

Reading a received message

1 [▦/OK] → "SMS" → [►]
2 "Receive List" → [►]
3 To access the public mailbox
  "Public" → [►]
  To access a private mailbox
  Select the desired mailbox. → [►] →
  Enter its password.
  ● If a mailbox contains new (unread)
    SMS messages, "*" is displayed next
    to the total number of messages for
    that mailbox.
4 Press [▲] or [▼] to select a message.
  ● Messages which have already been
    read are indicated by a "✓", even if
    they were read using another handset.
5 Press [▦/OK] to read the message
  content.

Note:
● To call the message sender, press [✆]
  or [📢].

Replying to a message

1 While reading a received message,
  press [▦/OK].
2 "Reply" → [►]
3 Enter a message (page 31). →
  [▦/OK]
4 Edit the destination phone number
  and/or press [▦/OK].
5 Continue from step 5, "Writing and
  sending a new message to a phone",
  page 24.

Editing/forwarding a message

1 While reading a received message,
  press [▦/OK].
2 "Edit Message" → [►]

3 Continue from step 3, "Writing and
  sending a new message to a phone",
  page 24.

Erasing received messages

1 While reading a received message,
  press [▦/OK].
2 "Erase" → [►]
  ● To erase all messages in the selected
    mailbox, select "Erase All". →
    [►]
3 "Yes" → [►] → [✆⊙]

Storing the sender's number in the handset phonebook

1 While reading a received message,
  press [▦/OK].
2 "Add Phonebook" → [►]
3 Continue from step 3, "Adding entries to
  the handset phonebook", page 14.

Editing the sender's number before calling back

1 While reading a received message,
  press [▦/OK].
2 "Edit and Call" → [►]
3 Edit the number. → [✆] / [📢]

SMS settings

SMS settings	Page
SMS on/off (default: "On")	page 23
Message Centre 1	page 23
Message Centre 2	page 23
Public keys (default: —)	page 27
PBX line access number (default: "Off")	page 27

Storing/changing the public keys

Public keys are similar to mailboxes, and
allow you to password protect your received
messages. You can create 6 public keys and
assign a password to each. You can change
the password or name of the public key and
erase the public key.

1 [▦/OK] → "SMS" → [►]
2 "Settings" → [►]
3 "Public Key" → [►]
4 Select the desired public key ("Public
  Key1" to "Public Key6") → [►]
  ● To change a public key, select the
    public key. → [►] 2 times → Enter
    the 4-digit public key password. →
    Go to step 5.
  ● To erase the public key, select the
    public key. → [►] 2 times → Enter
    the 4-digit public key password. →
    Press and hold [C/⊠]. → [▦/OK]
    → "Yes" → [►] → [✆⊙]
5 Enter a name for the public key (5
  characters max., page 31) → [▦/OK]
6 Enter a 4-digit password for the public
  key → [▦/OK]
7 "Save" → [►] → [✆⊙]

Note:
● To receive SMS messages with your
  public key, inform others of your public key
  name.
● If you change the name of a public key
  which has messages in the receive list,
  the messages will remain in the receive
  list under the new public key name.
● If you erase a public key which has
  messages in the receive list, the
  messages will also be erased.
● If you forget the password assigned to a
  public key, consult your nearest
  Panasonic service centre.

Storing the PBX line access number (for PBX users only)

Store your PBX line access number (4 digits
max.) so that SMS messages are sent
properly. When sending SMS messages to
entries in the handset phonebook or redial
list, the PBX line access number will be
deleted.

1 [▦/OK] → "SMS" → [►]
2 "Settings" → [►]
3 "PBX Access No." → [►]
4 "On" → [►]
5 Enter your PBX line access code and a
  dialling pause, if necessary. →
  [▦/OK]
6 "Save" → [►] → [✆⊙]

Operating additional units

Additional handsets

Up to 6 handsets can be registered to the base unit. Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call. See page 4 for information on ordering additional handsets.

Important:

● The additional handset model recommended for use with this unit is noted on page 4. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.

Registering a handset to the base unit

The included handset and base unit are preregistered. If for some reason the handset is not registered to the base unit (for example, Y flashes even when the handset is near the base unit), register the handset manually (page 28).

To register an additional handset to the base unit (easy registration)

After purchasing an additional handset, register it to the base unit. Ensure that the additional handset is switched on. If it is not on, press and hold [✖⊙] for few seconds to turn the handset on.

1 Lift the additional handset and press [✖⊙] to put the handset in standby mode.

2 Press and hold [•))] on the base unit for about 3 seconds, until the registration tone sounds.

3 Place the additional handset on the base unit. The registration tone continues to sound. With the handset still on the base unit, wait until a confirmation tone sounds and Y stops flashing.

Note:

● If an error tone sounds, or if Y is still flashing, register the handset manually (manual registration; page 28).

● If all registered handsets start ringing in step 2, press [•))] to stop. Start again from step 1.

● Charge the batteries of your additional handset for about 7 hours before initial use.

● This registration method cannot be used for handsets that have already been registered to the base unit. Register the handset manually (manual registration; page 28).

To register a handset to the base unit (manual registration)

You can register a handset to the base unit manually using the following method.

1 [▤/OK] → "Handset Setup" → [▸]

2 "Registration" → [▸]

3 "Register H.set" → [▸]

4 Press and hold [•))] on the base unit for about 3 seconds, until the registration tone sounds.

● If all registered handsets start ringing, press [•))] to stop, then repeat this step.

● After pressing [•))], the rest of this procedure must be completed within 1 minute.

5 Wait until "Enter Base PIN" is displayed, then enter the base unit PIN (default: "0000"), then press [▤/OK].

● When the handset has been registered successfully, Y will stop

flashing. If keytones are turned on (page 16), a confirmation tone will be heard.

Cancelling a handset

A maximum of 6 handsets can be registered to the base unit. A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to "forget" the handset.

1 [▤/OK] → "Base Unit Setup" → [▸]

2 Enter "335".

3 "Cancel Handset" → [▸]

● The numbers of all handsets registered to the base unit are displayed.

4 Select the handset(s) you want to cancel, by pressing the desired handset number. → [▤/OK]

● The selected handset number(s) will flash.

● To cancel a selected handset number, press the number again. The number will stop flashing.

5 "Yes" → [▸] → [✖⊙]

Increasing the range of the base unit

You can increase the signal range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 4. Consult your Panasonic dealer for details.

Important:

● Before registering the repeater to this base unit, you must turn the repeater mode on.

● Do not use more than one repeater at a time.

Setting the repeater mode

1 [▤/OK] → "Base Unit Setup" → [▸]

2 "Other Options" → [▸]

3 "Repeater Mode" → [▸]

4 "On" or "Off" → [▸] → [✖⊙]

Note:

● After turning repeater mode on or off, Y will flash on the handset momentarily. This is normal. The handset can be used once Y stops flashing.

Intercom between handsets

Intercom calls can be made between handsets.
Example: When handset 1 calls handset 2

1 **Handset 1:**
[INT] → Press [2] (desired handset number).

2 **Handset 2:**
Press [✆] / [◁] to answer.

3 When finished talking, press [✖⊙].

Transferring calls between handsets

Outside calls can be transferred between 2 people.
Example: When handset 1 transfers a call to handset 2

1 **Handset 1:**
During an outside call, press [INT]. → Press [2] (desired handset number).

● The outside call will be put on hold.

● If there is no answer, press [INT] to return to the outside call.

2 Handset 2:
Press [➜] / [◁] to answer the page.
● Handset 2 can talk with handset 1.

3 Handset 1:
To complete the call transfer, press
[✆].

Transferring a call without speaking to the other handset user

1 During an outside call, press [INT]. →
Press the desired handset number.
● ➞ flashes to indicate the outside call
is on hold.

2 [✆]
● The outside call rings at the other
handset.

Note:
● If the other handset user does not answer
the call within 1 minute, the call will ring at
your handset again.

Conference calls

2 people can have a conference call with an
outside party.
Example: When handset 1 transfers a call
to handset 2

1 Handset 1:
During an outside call, press [INT]. →
Press [2] (desired handset number).
● The outside call will be put on hold.
● If there is no answer, press [INT] to
return to the outside call.

2 Handset 2:
Press [➜] / [◁] to answer the page.
● Handset 2 can talk with handset 1.

3 Handset 1:
To establish a conference call, press
[3].

Copying phonebook entries

You can copy handset phonebook entries to
the handset phonebook of another
compatible Panasonic handset.

Copying one entry

1 Find the desired handset phonebook
entry (page 14). → [☰/OK]

2 "Copy" → [►]

3 Enter the handset number you wish to
send the handset phonebook entry to.
● When an entry has been copied,
"Completed" is displayed.
● To continue copying another entry:
"Yes" → [►] → Find the desired
handset phonebook entry. → [►]

4 [✆]

Copying all entries

1 [▢] → [☰/OK]

2 "Copy All" → [►]

3 Enter the handset number you wish to
send the handset phonebook entry to.
● When all entries have been copied,
"Completed" is displayed.

4 [✆]

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple
characters assigned to it. The available character entry modes are Alphabet (ABC), Numeric
(0-9), Greek (ABΓ), Extended 1 (AÄÁ), Extended 2 (SŚŠ), and Cyrillic (АБВ). For SMS
messages, Alphabet (ABC), Numeric (0-9), Greek (ABΓ), and Extended (AÄÁ) modes are
available. When in these entry modes except Numeric, you can select which character is
entered by pressing a dial key repeatedly.

– Press [◄] or [►] to move the cursor.
– Press dial keys to enter characters and numbers.
– Press [C/☒] to erase the character or number highlighted by the cursor. Press and hold
[C/☒] to erase all characters or numbers.
– Press [✱] to switch between uppercase and lowercase.
– To enter another character located on the same dial key, press [►] to move the cursor to
the next space, then press the appropriate dial key.

Character entry modes

Several character entry modes can be used when entering text. The characters that can be
entered depend on the entry mode.

Characters available in each character entry mode

When the unit displays the character entry screen:
[▢] → Select a character entry mode. → [►]

Note:
● For character entry when writing SMS messages, see page 33.

Alphabet character table (ABC)

(0)	(1)	(ABC2)	(DEF3)	(GHI4)	(JKL5)	(MNO6)	(PQRS7)	(TUV8)	(WXYZ9)
Space 0	Space # & ' ( ) ✱ , - . / 1	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Numeric entry table (0-9)

(0)	(1)	(ABC2)	(DEF3)	(GHI4)	(JKL5)	(MNO6)	(PQRS7)	(TUV8)	(WXYZ9)
0	1	2	3	4	5	6	7	8	9

Greek character table (ΑΒΓ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space # & ' ( ) ✳ , - . / 1	Α Β Γ 2	Δ Ε Ζ 3	Η Θ Ι 4	Κ Λ Μ 5	Ν Ξ Ο 6	Π Ρ Σ 7	Τ Υ Φ 8	Χ Ψ Ω ϐ 9

Extended 1 character table (AÄÅ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space # & ' ( ) ✳ , - . / 1	A À Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë È F 3	G Ğ H Ì Í Î Ï Ï Ĭ Ĩ 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S ß 7	T U Ù Ú Û Ü Ũ V 8	W Ŵ X Y ý Z 9
		a à á â ã ä å æ b c ç 2	d e è é ê ë ẽ f 3	g ğ h ì í î ï ĩ 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s ß 7	t u ù ú û ü ũ v 8	w ŵ x y ŷ z 9

- The following are used for both uppercase and lowercase: ø Ş Ŵ ŷ

Extended 2 character table (SŚŠ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space # & ' ( ) ✳ , - . / 1	A Á Ä Ą B C Ć Č Ċ 2	D Ď E Ę É Ě F 3	G H I Í 4	J K L Ł Ĺ Ľ 5	M N Ń Ñ O Ó Ö 6	P Q R Ŕ Ř S Ś Š 7	T Ť U Ú Û Ü ů V 8	W X Y ý Z Ź Ż Ž 9
		a á ä Ą b c Ć Č Ċ 2	d ď e é Ę ě f 3	g h i í 4	j k l Ĺ Ľ 5	m n Ń ñ o ó ö 6	p q r Ŕ ř s Ś Š 7	t ť u ú û ü ů v 8	w x y ý z Ź Ż Ž 9

- The following are used for both uppercase and lowercase:

Ą Ć Č Ę Ł Ĺ Ľ Ń Ŕ Ś Š ů ý Ź Ż Ž

Cyrillic character table (АБВ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0 Ґ Є І Ї Ў	Space # & ' ( ) ✳ , - . / 1	А Б В Г 2	Д Е Ж З 3	И Й К Л 4	М Н О П 5	Р С Т У 6	Ф Х Ц Ч 7	Ш Щ Ъ Ы 8	Ь Э Ю Я 9

When writing SMS messages

Alphabet character table (ABC)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space . @ / : ; ✳ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ ¦ < > = ¤ §	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Numeric entry table (0-9)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
0	1	2	3	4	5	6	7	8	9

Greek character table (ΑΒΓ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space . @ / : ; ✳ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ ¦ < > = ¤ §	Α Β Γ 2	Δ Ε Ζ 3	Η Θ Ι 4	Κ Λ Μ 5	Ν Ξ Ο 6	Π Ρ Σ 7	Τ Υ Φ 8	Χ Ψ Ω 9

Extended character table (AÄÅ)

0	1	(ABC) 2	(DEF) 3	(GHI) 4	(JKL) 5	(MNO) 6	(PQRS) 7	(TUV) 8	(WXYZ) 9
Space 0	Space . @ / : ; ✳ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ~ ¦ < > = ¤ §	A À Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë F 3	G Ğ H Ì Í Î Ï 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S ß 7	T U Ù Ú Û Ü Ũ V 8	W X Y Z 9
		a à á â ã ä å æ b c ç 2	d e è é ê ë f 3	g ğ h ì í î ï 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s Ş ß 7	t u ù ú û ü ũ v 8	w x y z 9

- The following are used for both uppercase and lowercase: ø Ş

Error messages

Error message	Cause & solution
`Failed`	● Phonebook copy failed. Confirm the other handset (the receiver) is in standby mode and try again.
`Incomplete`	● The receiver's phonebook memory is full. Erase the unnecessary phonebook entries from the other handset (the receiver) and try again.
`Invalid Number`	● You tried to send an SMS message to a phone number saved in the handset phonebook, caller list, or redial list that is over 20 digits long.
`Memory Full`	● The handset's phonebook memory is full. Erase unnecessary entries (page 14).
`SMS Full`	● Erase unnecessary messages (page 25, 26).
`You must first subscribe to Caller ID.`	● You must subscribe to Caller ID service. Once you receive caller information after subscribing to Caller ID service, this message will not be displayed.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the AC adaptor and turn off the handset, then reconnect the AC adaptor and turn on the handset.

Telephone

Problem	Cause & solution
⍦ is flashing.	● The handset is not registered to the base unit. Register it (page 28). ● The handset is too far from the base unit. Move closer. ● The AC adaptor is not connected. Check the connections. ● You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.
The handset display is blank.	● The handset is not turned on. Turn the power on (page 10).

Problem	Cause & solution
The handset will not turn on.	● Make sure that the batteries are installed correctly (page 8). ● Fully charge the batteries (page 9). ● Clean the charge contacts and charge again (page 9).
I have changed the display language to a language I cannot read.	● Change the display language (page 10).
I cannot make or receive calls.	● The AC adaptor or telephone line cord is not connected. Check the connections. ● If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter. ● Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company. ● The dialling mode setting is incorrect. Set to "Tone" or "Pulse" as needed (page 11). ● You dialled a call restricted number (page 20).
The unit does not ring.	● The ringer volume is turned off. Adjust the ringer volume (page 16, 19).
The batteries should be charging but the battery icon does not change.	● Clean the charge contacts and charge again (page 9).
A busy tone is heard when [⤷] is pressed.	● The handset is too far from the base unit. Move closer and try again. ● Another handset is in use. Wait and try again later.
Static is heard, sound cuts in and out. Interference from other electrical units.	● Place the handset and the base unit away from other electrical appliances. ● Move closer to the base unit. ● Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
Noise is heard during a call.	● You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.

Problem	Cause & solution
The handset stops working while being used.	• Disconnect the AC adaptor and turn off the handset. Connect the AC adaptor, turn on the handset and try again.
Pressing [⊙●] does not display/dial the last number dialled.	• The redialled number was more than 24 digits long. Redial the number manually.
The handset beeps intermittently and/or ⌷▪ flashes.	• Fully charge the batteries (page 9).
I fully charged the batteries, but ⌷▪ still flashes.	• Clean the charge contacts and charge again (page 9). • It is time to replace the batteries (page 8).
I fully charged the batteries, but the operating time seems to be short.	• Wipe the battery ends (⊕, ⊖) and the unit contacts with a dry cloth.
Caller information is not displayed.	• You must subscribe to Caller ID service. • Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
While viewing caller information, the display returns to standby mode.	• Do not pause for over 1 minute while searching.
I cannot register a handset to the base unit.	• The maximum number of handsets (6) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 29). • You entered the wrong PIN number. If you forget your PIN, consult your nearest Panasonic service centre. • Place the handset and the base unit away from other electrical appliances.

SMS (Short Message Service)

Problem	Cause & solution
I cannot send or receive SMS messages.	• You have not subscribed to the appropriate service. Consult your service provider/telephone company. • The SMS message centre number(s) are not stored or are incorrect. Store the correct numbers (page 23). • Message transmission was interrupted. Wait until the message has been sent before using other telephone functions. • Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
The SMS message centre number is logged in the caller list and the message is not received.	• Someone tried to send you a message while SMS is turned off.
"This message contains unrecognized characters." is displayed.	• You have received a message which contains Chinese characters. Ask the sender to write the message using non-Chinese characters.
"FD" is displayed.	• The unit could not connect to the SMS message centre. Confirm that the correct SMS message centre numbers are stored (page 23). Confirm that SMS is turned on (page 23).
"FE" is displayed.	• An error occurred while sending the message. Try again.
"✓" is not displayed after I read a message.	• When an error code ("FD" or "FE") is displayed, "✓" will not be displayed even if you have read the message.

![banner]

Specifications

■ **Standard:**
DECT (Digital Enhanced Cordless
Telecommunications),
GAP (Generic Access Profile)

■ **Number of channels:**
120 Duplex Channels

■ **Frequency range:**
1.88 GHz to 1.9 GHz

■ **Duplex procedure:**
TDMA (Time Division Multiple Access)

■ **Channel spacing:**
1,728 kHz

■ **Bit rate:**
1,152 kbit/s

■ **Modulation:**
GFSK (Gaussian Frequency Shift Keying)

■ **RF transmission power:**
Approx. 250 mW

■ **Power source:**
220–240 V, 50 Hz

■ **Power consumption:**
Base unit:
Standby: Approx. 1.9 W
Maximum: Approx. 6.8 W
Charger[*1]:
Standby: Approx. 1.5 W
Maximum: Approx. 3 W

■ **Operating conditions:**
5 °C–40 °C, 20 %–80 % relative air humidity
(dry)

■ **Dimensions:**
Base unit: Approx. 60 mm × 173 mm ×
105 mm
Handset: Approx. 155 mm × 48 mm ×
34 mm
Charger[*1]: Approx. 61 mm × 87 mm ×
95 mm

■ **Mass (weight):**
Base unit: Approx. 220 g
Handset: Approx. 140 g

Charger[*1]: Approx. 90 g

*1 KX-TG7102 only

Note:
● Specifications are subject to change.
● The illustrations used in these operating
instructions may differ slightly from the
actual product.

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